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1 Ad Hoc Query: a reusable database access capability   ▩
J. Wolfe
July 1994 **Proceedings of the eleventh annual Washington Ada symposium & summer ACM SIGAda meeting on Ada**
Full text available: 🔲 pdf(1.06 MB)   Additional Information: full citation, references, index terms

2 Automatic normalistation and entity: relationship generation through attributes and   ▩
roles
Ken Meyer, John Doughty
November 1984 **ACM SIGMOD Record**, Volume 14 Issue 3
Full text available: 🔲 pdf(1.58 MB)   Additional Information: full citation, references

3 A survey of structured and object-oriented software specification methods and   ▩
techniques
Roel Wieringa
December 1998 **ACM Computing Surveys (CSUR)**, Volume 30 Issue 4

Full text available: 🔲 pdf(605.26 KB)   Additional Information: full citation, abstract, references, citings, index terms, review

This article surveys techniques used in structured and object-oriented software specification methods. The techniques are classified as techniques for the specification of external interaction and internal decomposition. The external specification techniques are further subdivided into techniques for the specification of functions, behavior, and communication. After surveying the techniques, we summarize the way they are used in structured and object-oriented methods and indicate ways in w ...

Keywords: languages

4 Informatics: data base: An attempt to computerized dictionary data bases   ▩
M. Nagao, J. Tsujii, Y. Ueda, M. Takiyama
September 1980 **Proceedings of the 8th conference on Computational linguistics**
Full text available: 🔲 pdf(785.48 KB)   Additional Information: full citation, references, citings

5 Integrating relational database schemas using a standardized dictionary

Ramon Lawrence, Ken Barker

March 2001 **Proceedings of the 2001 ACM symposium on Applied computing**

Full text available: pdf(614.67 KB)   Additional Information: full citation, references, index terms

Keywords: XML, automatic conflict resolution, multidatabase, relational schema integration, standardization

6 Information systems interoperability: What lies beneath?

Jinsoo Park, Sudha Ram

October 2004 **ACM Transactions on Information Systems (TOIS)**, Volume 22 Issue 4

Full text available: pdf(824.78 KB)   Additional Information: full citation, abstract, references, index terms

Interoperability is the most critical issue facing businesses that need to access information from multiple information systems. Our objective in this research is to develop a comprehensive framework and methodology to facilitate semantic interoperability among distributed and heterogeneous information systems. A comprehensive framework for managing various semantic conflicts is proposed. Our proposed framework provides a unified view of the underlying representational and reasoning formalism ...

Keywords: Information integration, mediators, ontology, semantic conflict resolution, semantic heterogeneity

7 Man-assisted machine construction of a semantic dictionary for natural language processing

Sho Yoshida, Hiroaki Tsurumaru, Tooru Hitaka

July 1982 **Proceedings of the 9th conference on Computational linguistics - Volume 1**

Full text available: pdf(295.11 KB)   Additional Information: full citation, abstract, references, citings

This is a report on the semantic dictionary for natural language processing we are constructing now. This paper explains how to obtain the semantic information for the dictionary from an ordinary Japanese language dictionary with about 60,000 items (which had already been put into machine readable form) and also explains what should be the frame for the representation of meaning of each item (word). Then a man-assisted machine procedure that embeds the semantic graph with respect to the head wor ...

8 Poster Sessions: Am overview of the EDR electronic dictionary and the current status of its utilization

Hideo Miyoshi, Kenji Sugiyama, Masahiro Kobayashi, Takano Ogino

August 1996 **Proceedings of the 16th conference on Computational linguistics - Volume 2**

Full text available: pdf(307.56 KB)   Additional Information: full citation, abstract, references

In this paper we present the specification and the structure of EDR Electronic Dictionary which was developed in a nine-year project. The first version of EDR dictionary (V1.0) and its revised version (VI.5) are already released and are now utilized at many sites for both academic and commercial purposes. We also describe the current status how the EDR dictionary is utilized. Finally we will give the outline of the new R&D project which EDR will launch in fiscal 1996.

9 Statistical Discrimination of the Synonymy/Antonymy Relationship Between Words
P. A. W. Lewis, P. B. Baxendale, J. L. Bennett
January 1967 **Journal of the ACM (JACM)**, Volume 14 Issue 1

Full text available: pdf(1.94 MB)   Additional Information: full citation, abstract, references, citings, index terms

A basic hypothesis is stated about the contextual and co-occurrence properties of synonymous words. On the basis of this hypothesis, several statistics are derived for use in discriminating between pairs of words which are synonymous and pairs of words which are nonsynonymous. The discriminating power of these statistics is tested on a corpus consisting of titles of physics theses. The tests indicate that two of the derived statistics have relatively high discriminating power. The results a ...

10 Bioinformatics (BIO): BioMap: toward the development of a knowledge base of biomedical literature
Kamal Kumar, Mathew J. Palakal, Snehasis Mukhopadhyay, Mathew J. Stephens, Huian Li
March 2004 **Proceedings of the 2004 ACM symposium on Applied computing**

Full text available: pdf(212.77 KB)   Additional Information: full citation, abstract, references

Biological literature databases continue to grow rapidly with vital information that is important for conducting sound biomedical research. As data and information space continue to grow exponentially, the need for rapidly surveying the published literature, synthesizing, and discovering the embedded "knowledge" is becoming critical to allow the researchers to conduct "informed" work, avoid repetition, and generate new hypotheses. Knowledge, in this case, is defined as one-to-many and many-to-ma ...

Keywords: bioinformatics, data mining, databases, machine learning, text mining

11 Comparing undergraduate courses in systems analysis and design
Raymond McLeod
May 1996 **Communications of the ACM**, Volume 39 Issue 5

Full text available: pdf(2.89 MB)   Additional Information: full citation, references, citings, index terms

12 Domain-independent natural language interfaces: Problems in natural-language interface to DBMS with examples from EUFID
Marjorie Templeton, John Burger
February 1983 **Proceedings of the first conference on Applied natural language processing**

Full text available: pdf(1.18 MB) Publisher Site   Additional Information: full citation, abstract, references, citings

For five years the End-User Friendly Interface to Data management (EUFID) project team at System Development Corporation worked on the design and implementation of a Natural-Language Interface (NLI) system that was to be independent of both the application and the database management system. In this paper we describe application, natural-language and database management problems involved in NLI development, with specific reference to the EUFID system as an example.

13 Ranking text units according to textual saliency, connectivity and topic aptness
Antonio Sanfilippo
August 1998

Full text available: pdf(586.85 KB)

Publisher Site   Additional Information: full citation, abstract, references

An efficient use of lexical cohesion is described for ranking text units according to their contribution in defining the meaning of a text (textual saliency), their ability to form a cohesive subtext (textual connectivity) and the extent and effectiveness to which they address the different topics which characterize the subject matter of the text (topic aptness). A specific application is also discussed where the method described is employed to build the indexing component of a summarization sys ...

14 A relational information resource dictionary system
Daniel R Dolk, Robert A. Kirsch
January 1987 **Communications of the ACM**, Volume 30 Issue 1

Full text available: pdf(1.45 MB)   Additional Information: full citation, abstract, references, citings, index terms, review

A relational implementation of IRDS using SQL demonstrates how the flexibility of the relational environment enhances the extensibility of the IRDS while at the same time providing more powerful dictionary capabilities than are typically found in relational systems.

15 Computer-aided analysis and design of information systems
J. F. Nunamaker, Benn R. Konsynski, Thomas Ho, Carl Allen Singer
December 1976 **Communications of the ACM**, Volume 19 Issue 12

Full text available: pdf(1.38 MB)   Additional Information: full citation, abstract, references, citings

This paper describes the use of computer-aided analysis for the design and development of an integrated financial management system by the Navy Material Command Support Activity (NMCSA). Computer-aided analysis consists of a set of procedures and computer programs specifically designed to aid in the process of applications software design, computer selection and performance evaluation. There are four major components: Problem Statement Language, Problem Statement Analyzer, Generator of Alte ...

Keywords: accurately defined systems, computer-aided analysis, information systems, logical system design, physical system design, problem statement analyzer, problem statement language, systems optimization and design algorithm

16 On the application of syntactic methodologies in automatic text analysis
G. Salton, M. Smith
May 1989 **ACM SIGIR Forum , Proceedings of the 12th annual international ACM SIGIR conference on Research and development in information retrieval**, Volume 23 Issue 1-2

Full text available: pdf(1.09 MB)   Additional Information: full citation, abstract, references, citings, index terms

This study summarizes various linguistic approaches proposed for document analysis in information retrieval environments. Included are standard syntactic methods to generate complex content identifiers, and the use of semantic know-how obtained from machine-readable dictionaries and from specially constructed knowledge bases. A particular syntactic analysis methodology is also outlined and its usefulness for the automatic construction of book indexes is examined.

17 Emulation as a design tool in the development of real-time control systems
Howard M. Bloom, Cita M. Furlani, Anthony J. Barbera
January 1984 **Proceedings of the 16th conference on Winter simulation**

Full text available: pdf(715.06 KB)   Additional Information: full citation, abstract, references, index terms

A major facility for manufacturing research is being established at the National Bureau of Standards. The Automated Manufacturing Research Facility (AMRF) will provide testbed where measurement research of computer integrated manufacturing systems can be performed. The control architecture of the facility is based on a sensory-interactive, modular, hierarchical, feedback system. Each module is represented as a finite state machine that interacts through a shared time-sliced common-memory wh ...

18 A domain specific reuse program for electronic support measures
Louise Sevigny
June 1993 **Proceedings of the tenth annual Washington Ada symposium on Ada: Ada's role in software engineering**
Full text available: pdf(1.33 MB)   Additional Information: full citation, references

19 A requirements and design aid for relational data bases
Max L. Wilson
March 1981 **Proceedings of the 5th international conference on Software engineering**

Full text available: pdf(910.98 KB)   Additional Information: full citation, abstract, references, citings, index terms

A tool is described for defining data processing system requirements and for automatically generating data base designs from the requirements. The generated designs are specific to System R but the mapping rules are valid for the relational model in general and can be adapted to other data models as well. The requirements and design are stored in a System R data base, are cross-referenced with each other, and can be accessed and used for other purposes. The requirements are defined in terms ...

20 The Integrated Dictionary/Directory System
Frank W. Allen, Mary E. S. Loomis, Michael V. Mannino
June 1982 **ACM Computing Surveys (CSUR)**, Volume 14 Issue 2
Full text available: pdf(2.71 MB)   Additional Information: full citation, references, citings, index terms

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